Faculty of Computers & Information Technology

Parallel Processing

Information :

Course Code : CSC 418   **Level**   **:** Undergraduate   **Course Hours :** 3.00- Hours

Department : Department of Computer Science

Description :

Interconnection networks: parallel computing and networks, direct and indirect networks, message switching layer, deadlock and live lock and starvation, routing algorithms, collective communication support. Parallel algorithms: BRAM model, basic techniques (balanced tree algorithm, divide and conquer, prefix computations, pointer jumping, partitioning), list and trees (list ranking, symmetry breaking, Euler tour techniques), searching, merging, and sorting algorithms

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